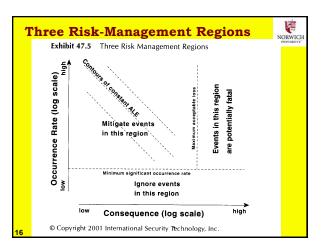


Risk Managers' Goals Imagine wide range of risks Try to estimate consequences / costs Attempt to determine probabilities Identify risk-mitigation strategies and their costs Compute ALEs to estimate appropriate return on investment (ROI) Generally focus on loss-avoidance However, some loss-avoidance can reduce costs to such a point as to provide overall increase in profitability Also consider secondary effects such as improved customer relations, marketability, visibility in competitive marketplace....



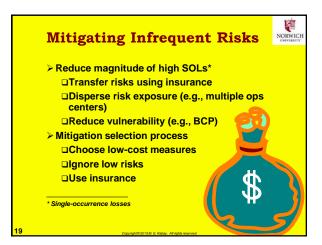
Where ROI-Based Risk Mitigation is Effective

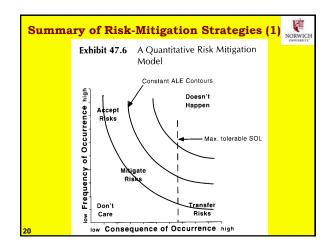
- Works well for high-probability, low-cost risk exposures
 - □Realistic appraisal by managers □Data are credible
- Does not work well for low-probability, highcost risk exposures
- Upper management rarely understand implications of information technology risks
- "Who would have thought that.... is common reaction by upper management

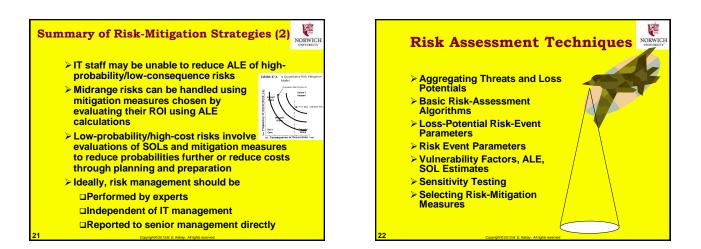


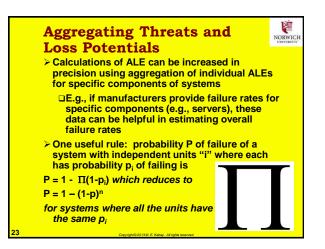
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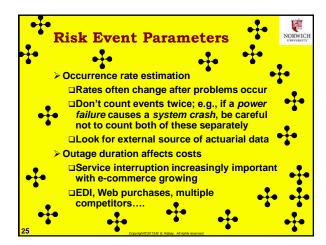


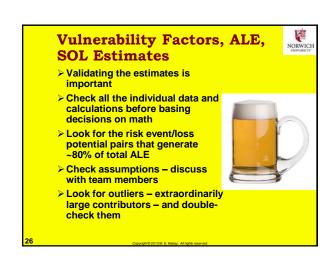




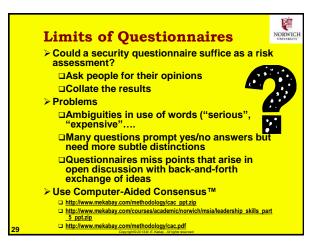


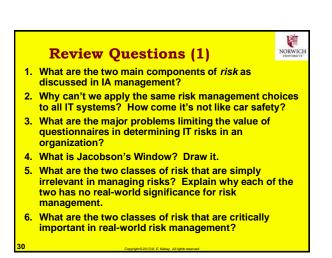












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Review Questions (2)

- 7. What is the ALE for a 100-year flood (one that occurs on average once in a century) that completely destroys a \$10M building?
- 8. What is the ALE for a meteor strike equivalent to the C-T (Cretaceous-Tertiary) extinction event that killed off 99.9% of the dinosaurs and other living things and led to a decades-long global winter 65 million years ago? Assume that such an event has an occurrence rate of 1 per 100 million years and make reasonable estimates of the global domestic product if the entire human population were to be destroyed.
- Calculate the Expected Value E(x) for a BCP & DRP that costs \$10,000 per year, is used on average only once in a century, but saves the organization \$15M if it is actually used.

